

## Question-1

- (i) Describe briefly the diseases not related to yakṣmā and takman. How were the diseases amiva and viṣkandhasamsakandha treated during vedic period. 5
- (ii) What are Skin Disorders? How these were classified? Describe briefly their symptoms and remedies. 5

OR

- (i) Describe briefly the process of healing. How did the mythology play a significant role in the Vedic tradition of healing. 5
- (ii) Describe briefly about the diseases Jayanya and Kṣetriya. What are the symptoms and remedies of these diseases? 5

## Question-2

- (i) What is photochemical smog? How does it form? Discuss its adverse effect on human health and environment. 5
- (ii) What are irritants? Discuss their classification and adverse effect on human health. 5

OR

- (i) Define following terms with suitable examples: 5
- a) Cardiac Arrhythmia
- b) Bronchoconstriction
- (ii) What are the various products of combustion and its effects on health as toxic properties? 5

## Question-3

- (i) State the risks associated with exposure due to H<sub>2</sub>S gas in mines. Express its exposure standards. 5
- (ii) What are the important recommendations to be referred during preparation of a Hazard Management Plan for an effective control of spontaneous combustion management program? 5

OR

- (i) Describe an Overview of Smoke Inhalation. What preventive measure are needed to avoid smoke inhalation. 5

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E1271-2

- (ii) Describe the Acute and Chronic effect of CO Poisoning due to spontaneous combustion in coal mines. How can employers and employees help in prevention of CO poisoning? 5

Question-4

- (i) What are the immediate care / actions to cure the Apneic patient of smoke inhalation? 5
- (ii) What are Inhalation Burns? Discuss the symptoms and techniques used to cure them. 5

OR

- (i) How is Scene Assessment performed? Discuss important features of the same. 5
- (ii) State the important techniques to perform a rapid assessment of the patient's neurological status and mental status. 5

Question-5 Attempt all. 10

- i. The Atharvavedic charm suggests that a ..... was restrained, perhaps in a sort of straightjacket, presumably so that he could not harm anyone.
- Victim of madness
  - Victim of jalodara
  - Victim of viskandha
  - None of the above
- ii. Leukoderm is the disease pertaining to:
- Body Pain
  - Insect bite
  - Skin
  - Blood loss
- iii. An abnormal deficiency in the concentration of oxygen in arterial blood can develop:
- Cancer
  - Hypoxemia
  - Hypoxia
  - Bronchospasm
- iv. The ratio of the concentrations of carbon dioxide to carbon monoxide, often used as a descriptive characteristic of a fire:
- True
  - False
  - Not relevant
- v. .... is a highly toxic gas that irritates the mucous membranes and eyes and has narcotic effect on the nervous system.
- Carbon Monoxide
  - Hydrogen Cyanide
  - Hydrogen sulphide
  - Carbon dioxide

E1271-3

- vi. Which one is developed in accordance with section 10 of the Coal Mining Safety and Health Regulation 2001:
  - a. EMP
  - b. SOP
  - c. HMP
  - d. HSE Policy
- vii. Range of Flammable mixtures of H<sub>2</sub>S in the air is approximately:
  - a. 4.0 ~ 75%.
  - b. 4.2 ~ 16.4%
  - c. 4.5 ~ 45%.
  - d. 2.1 ~ 8.4%
- viii. Chronic carbon monoxide exposure might increase the risk of developing the      dieses      in arteries:
  - a. Atherosclerosis
  - b. Anoxia
  - c. Hypoxemia
  - d. Pulmonary Edema
- ix. Cardiac toxicity caused due to:
  - a. Exposure of HCN
  - b. Exposure of CO
  - c. Exposure of CO<sub>2</sub>
  - d. Exposure of Ultrafine particles
- x. Atelectasis is caused due to Inhaling:
  - a. HCN
  - b. Steam
  - c. CO
  - d. HCl

